

Dolan and Holladay: Treatment and Prevention of Athletic Injuries. Ed. 3, The Interstate Printers and Publishers, 1967, 364

Dumoulin and de Bisschop: Electrotherapie, Librairie Maloine, 1966, 57

Ebner: Physiotherapy in Obstetrics (Including Education for Childbirth and Postnatal Restoration), The Williams & Wilkins Co., 1967, 607

Erslev and Urist: Clinical Orthopaedics and Related Research. No. 52. Bone and Bone Marrow, J. B. Lippincott Co., 1967, 421

Evang and Andersen: Physical Activity in Health and Disease, The Williams & Wilkins Co., 1966, 302

Farnsworth et al: Annual Review of Psychology. Vol. 19, Annual Reviews, Inc., 1968, 612

Field: Patients Are People: A Medical-Social Approach to Prolonged Illness. Ed. 3, Columbia University Press, 1967, 366

Gorton: The Muenster-Type Below-Elbow Prosthesis for Children, Prosthetic and Orthotic Studies, New York University, 1967, 56

Hall et al: Annual Review of Physiology. Vol. 30, Annual Reviews, Inc., 1968, 547

Hamwi and Danowski: Diabetes Mellitus: Diagnosis and Treatment. Vol. 2, American Diabetes Association, Inc., 1967, 484

Hirata: The Doctor and the Athlete, J. B. Lippincott Co., 1968, 548

Hohmann and Jegel-Stumpf: Orthopadische Gymnastik, George Thieme Verlag, 1967, 365

Hunt: Stammering and Stuttering: Their Nature and Treatment, Hafner Publishing Co., 1967, 609

James et al: Scoliosis, The Williams & Wilkins Co., 1967, 744

Jentschura: Malformations and Amputations of the Upper Extremity: Treatment and Prosthetic Replacement, Grune & Stratton, Inc., 1967, 243

Kay and Fishman: 1018 Children With Skeletal Limb Deficiencies, Prosthetic and Orthotic Studies, New York University, 1967, 56

Koestler: Utilization of Rehabilitation Manpower in the Community Setting, New York Regional Interdepartmental Rehabilitation Committee, 1967, 485

Mune: Clinical Plethysmography of the Forefoot in Arteriosclerosis Obliterans: Simultaneous Studies of Pulse Curve Morphology and Blood Flow, Munksgaard, 1967, 181

Rasch and Burke: Kinesiology and Applied Anatomy. Ed. 3, Lea & Febiger, 1967, 422

Serra: Le Indicazioni Extraneurologiche Dell' Electromiografia, Acta Neurologica, 1966, 486

Shands and Raney: Handbook of Orthopaedic Surgery, Ed. 7, The C. V. Mosby Co., 1967, 57

Shea and Wieman: Administrative Policies for Intercollegiate Athletics, Charles C Thomas Publisher, 1967, 485

Slovenko and Knight: Motivations in Play, Games and Sports, Charles C Thomas Publisher, 1967, 610

Snapper and Kahn: Bedside Medicine. Ed. 2, Grune & Stratton, Inc., 1967, 121

Society for Research Into Hydrocephalus and Spina Bifida in Cardiff: Research Into Hydrocephalus and Spina Bifida, Spastics Society Medical Education and Information Unit in Association with William Heinemann Medical Books Ltd., 1967, 55

Sohier: Kinesitherapy of the Shoulder: The Fundamentals, The Techniques, The Specific Treatments, The Williams & Wilkins Co., 1967, 182

Spackman: Conditioning for Baseball: Pre-Season, Regular Season, and Off-Season, Charles C Thomas Publisher, 1967, 365

Spackman: Conditioning for Football: Pre-Season, Regular Season and Off-Season, Charles C Thomas Publisher, 1968, 548

Sperling: Die Psychosoziale Lage Von Hirnverletzten, George Thieme Verlag, 1967, 611

Spira: Influence of Sport Activities on Rehabilitation of Paralytic Subjects: Study of the Physical and Psychological Impacts, Vocational Rehabilitation Administration, 1967, 608

Taylor and Taylor: Services for Handicapped Youth in England and Wales, International Society for Rehabilitation of the Disabled, 1966, 608

Thompson and Murray: Paraplegia at Home, E. & S. Livingstone Ltd., 1967, 244

Tonnis et al: Organisation Der Behandlung Schwerer Schadel-Hirn-Verletzungen, George Thieme Verlag, 1968, 611

Turek: Orthopaedics—Principles and Their Application, J. B. Lippincott Co., 1967, 363

Urist: Clinical Orthopaedics and Related Research. No. 50. Trauma to the Elbow and Forearm, J. B. Lippincott Co., 1967, 301

Urist: Clinical Orthopaedics and Related Research. No. 54. Typical Orthopaedic Problems, J. B. Lippincott Co., 1967, 364

Urist: Clinical Orthopaedics and Related Research. No. 51. Thoracic Outlet Compression Syndromes, J. B. Lippincott Co., 1967, 365

U. S. Department of Health, Education, and Welfare: Alcohol and Alcoholism, U. S. Government Printing Office, 301

Wagner and Smith: The Connective Tissue, The Williams & Wilkins Co., 1967, 122

Warren and Record: Lower Extremity Amputations for Arterial Insufficiency, Little, Brown and Co., 1967, 243

Winters et al: Acid Base Physiology in Medicine: A Self-Instruction Program, The London Co., 1967, 363

World Federation of Occupational Therapists: Through Youth to Age: Occupational Therapy Faces the Challenge, Excerpta Medica Foundation, 1967, 55

BRACE, SHORT LEG, plastic, 108
 . . . for intermittent claudication of calf, 578
 . . . for triceps surae weakness, 105

BRONCHIAL OBSTRUCTION in chronic lung disease, 333

BURNS, hypnosis for pain, 39

C

CALORIC COST of playing golf, 31

CARCINOMATOUS NEUROPATHY, motor-point biopsies, 643

CARDIAC DISEASE, assessment of disability, 13
 . . . physiologic and behavioral effects of training, 131
 . . . effects of upper and lower extremity work, 249

CARPAL TUNNEL SYNDROME
 . . . clinical and electrodiagnostic features, 371
 . . . postoperative electrodiagnosis, 502

CATEGORIZATION of rehabilitation services, 423

CEREBRAL PALSY, abdominal reflex, 163
 . . . diazepam for hypertonicity, 519

CERVICAL PAIN SYNDROMES, 376
 . . . EMG evaluation post-trauma, 170

CERVICAL RADICULOPATHY,
 . . . chronic, EMG, 407
 . . . polyphasic EMG potentials, 403

CHOREA, HUNTINGTON'S, effect of diazepam, 586

CHRONAXIE and strength-duration studies in hemiplegic patients, 96
 . . . in rheumatoid arthritis, 90

CIRCULATION
 . . . arterial disorders in extremities, 315
 . . . claudication of calf, short leg brace, 578
 . . . diathermy, continuous and pulsed, 429
 . . . effects of heat, cold and exercise, 308
 . . . factors governing in limbs, 303
 . . . in hemiplegic lower limb, 467
 . . . surgical treatment, 326

CIRCULATORY changes of the paretic extremities after acute anterior poliomyelitis, 77

CITATIONS, E. C. Elkins, 602; E. W. Johnson, 544

CLERKSHIP, effect of attitudes of medical students to physical medicine, 82

CLINICAL APPLICATIONS of myoelectric control in upper extremity orthotics, 661

CLINICAL NOTES
 . . . abdominal emergencies in spinal man, 343
 . . . adrenal insufficiency, flexion contractures, 413
 . . . cervical pain, post-traumatic, EMG, 170
 . . . diazepam, long-acting, in spasticity, 36
 . . . electrodermal study of spinal man, 728
 . . . hypnosis for pain in burns, 39
 . . . myxedema myopathy, 230

COLD, effects on peripheral circulation, 308
 . . . local use in fibrosis, 155

COMMUNICATION PROFILE for aphasia, 210

COMMUNITY, HUMAN, in rehabilitation, 59

COMPARISON OF CIRCULATION in the lower extremities of hemiplegic patients, 467

COMPARISON OF HOME AND CLINIC rehabilitation for chronically ill and physically disabled persons, 615

COMPRESSION of intercostal nerve roots, 515

COMPUTER ANALYSIS of the duration of motor unit potentials, 524

D

DEAVER, G. D., 110

DECUBITUS ULCERS, treatment with water mattress, 290

DeLORME AXIOM, test of, 245

DENERVATED RABBIT MUSCLE, maintenance by direct electrostimulation, 573
 . . . stimulus variation and recruitment, 566

DETERMINATIONS of intercostal motor conduction time in diagnosis of root compression, 515

DEVICES (see Prosthetics, Orthotics and Devices)

DIAGNOSIS OF ABDOMINAL EMERGENCIES in patients with spinal cord lesions, 343

DIAPHRAGM, role in chronic obstructive lung disease, 338

DIATHERMY, SHORT WAVE, comparison of continuous and pulsed on circulation, 429
 . . . helical induction coil heating patterns, 193

DIAZEPAM in cerebral palsy, 519
 . . . in Huntington's chorea, 586
 . . . long acting, for spasticity, 36
 . . . and spastic hand properties, 677

DIMETHYL SULFOXIDE, effect on sciatic nerve of rat, 100

DISABILITY assessment in medical impairment, 13
 . . . home versus clinic rehabilitation, 615
 . . . home management, 592
 . . . simulated disability for teaching, 167
 . . . symposium on clinical management, 367-402

DISCRIMINATION, LEFT-RIGHT in hemiplegia, 533

DISTRIBUTION OF PRESSURE, transparent wheelchair seat for observation, 541

DOMAN-DELACATO TREATMENT of neurologically handicapped children, official statement, 183

DYNAMIC AND STATIC properties of stretch reflex, alterations in hemiplegia, 199

DYSARTHRIA EMG studies, 1

DYSTROPHY, MUSCULAR, effect of exercise on serum enzymes, 554

E

EDITORIALS

- ... bed service for PM&R, 613
- ... categorization of rehabilitation services, 423
- ... 5th International Congress of Physical Medicine, 735
- ... manpower problems in rehabilitation, 487
- ... undergraduate education in PM&R, 123

EDUCATION

- ... bed service for PM&R, 613
- ... clerkship and attitudes of medical students, 82
- ... simulated disability, 167
- ... summer fellowships, 125
- ... undergraduate, 123

EFFECT OF EXERCISE on serum enzymes, 554

EFFECTS OF HEAT, COLD AND EXERCISE on the peripheral circulation, 308

EFFECTS OF PHYSICAL TRAINING on physiologic and behavioral characteristics of cardiac patients, 131

EFFECT OF STIMULUS PARAMETER variation on recruitment in denervated rabbit muscle, 566

ELECTRICAL STIMULATION, influence of stimulus on recruitment, 566

- ... maintenance of denervated rabbit muscle, 573

ELECTRODE, spring-loaded, for sensory nerve conduction, 665

ELECTRODERMAL study of patients with spinal cord injuries, 728

ELECTRODIAGNOSIS after surgery for the carpal tunnel syndrome, 502

- ... features of carpal tunnel syndrome, 371
- ... hemiplegia, 96

- ... in myxedema myopathy, 230
- ... in rheumatoid arthritis, 90

ELECTROMYOGRAPHIC and evoked potential responses after phenol block of peripheral nerves, 455

- ... electrodiagnostic, and motor nerve conduction observations in patients with rheumatoid arthritis, 90

- ... evaluation of patients with post-traumatic cervical pain, 170

- ... findings in chronic cervical radicular syndromes, 407

- ... findings after phenol block, 217
- ... studies of articulation in aphasia, 1

ELECTROMYOGRAPHY

- ... of bladder sphincter, 692
- ... in carpal tunnel syndrome, 371
- ... in cervical radiculopathy, 403

- ... duration of motor unit potentials, 524
- ... of fibrotic nodules, 155

- ... in myxedema myopathy, 230
- ... after surgery for carpal tunnel syndrome, 502

ELKINS, E. C., 602

EMPHYSEMA, personality characteristics, 471

ENERGY COST of playing golf, 31

ENGINEERING PRINCIPLES in the control of external power by myoelectric signals, 294

ENZYMES, serum, and exercise, 554

EPIDERMOLYSIS BULLOSA, rehabilitation of hand, 138

EVALUATION of diazepam in skeletal muscle hypertonicity in cerebral palsy, 519

- ... of the effect of isometric training in functional and organic muscle atrophy, 508

- ... of self care, 221

EVOKED POTENTIALS after phenol blocks of peripheral nerves, 455

EXERCISE in medicine; a review, 66

- ... and DeLorme axiom, 245

- ... and peripheral circulation, 308

- ... and serum enzymes, 554

EXPERIMENTAL ALLERGIC NEURITIS, a model of idiopathic (Guillain-Barré) polyneuritis, 490

EXPERIMENTAL plastic short leg brace, 108

EXPRESSIVE APHASIA, and EMG, 1

EXTENDED CARE and utilization, 423

EXTREMITIES, circulatory changes after poliomyelitis, 77

- ... arterial disorders, 315

- ... circulation in lower in hemiplegia, 467

- ... lower versus upper, work effects on heart, 249

- ... upper, kinematic study method, 9

- ... upper, myoelectric control, 661

F

FELLOWSHIP, SUMMER in PM&R, 125

FEMORAL NERVE conduction studies, 528

FIBROSIS SYNDROME, 155

FIFTH International Congress of Physical Medicine, 735

FLEXION CONTRACTURE in adrenal insufficiency, 413

FLEXOR SPASTICITY OF HIP, phenol blocks, 717

FOOTREST AND ARMREST wheelchair modification, 480

FORCES, SHEARING on soles of feet, insole, 476

FUNCTIONAL CLASSIFICATION of neurogenic bladder dysfunction, 692

FUTURE in physical medicine and rehabilitation, 426

G

GAIT, telemetric recording of muscle activity, 349

GALVANIC SKIN RESPONSE with spinal cord lesions, 728

GAMMA MOTOR NEURON in achilles tendon reflex, normal, 145

- ... in achilles tendon reflex in hemiplegia, 698

GASTROCNEMIUS-SOLEUS reflex and rheologic properties, 723

- ... weakness, brace, 105

GOLF, energy cost, 31

GUILLAIN-BARRÉ polyneuritis, experimental model, 490

GUILT and unmotivated patient, 281

H

HAND deformities in epidermolysis bullosa, 138

- ... paralyzed, writing techniques, 538

- ... shoulder syndrome, 388

HANDICAPPED CHILDREN, Doman-Delacato treatment, official statement, 183

HEALTH PLANNING in rehabilitation services, 423
 HEART, effects of muscular work by upper and lower extremities, 249
 HEAT, effects on peripheral circulation, 308
 HEATING of joint structures by ultrasound, 28
 . . . patterns produced by short-wave diathermy using helical induction coil applicators, 193
 HEMIPELVECTOMY, prosthetic spinal support, 42
 HEMIPLEGIA, analysis of aphasia, 210
 . . . articulation in aphasia, 1
 . . . circulation in lower extremity, 467
 . . . electrodiagnosis, 96
 . . . left-right discrimination, 533
 . . . reflex role of gamma motor system, 698
 . . . self-care evaluation, 221
 . . . self-care recovery, 449
 . . . simulation of disability, 167
 . . . spastic calf properties, 723
 . . . spinal motoneuron excitability, 708
 . . . stretch reflex alterations, 199
 . . . surgery in adults, 437
 . . . viscoelastic properties of hand, 677
 HIP FLEXOR SPASTICITY, phenol block, 717
 HOME and clinic rehabilitation, 615
 . . . management of spinal cord lesions, 592
 HUMAN COMMUNITY in the rehabilitation process, 59
 HUNTINGTON'S CHOREA, effect of diazepam, 586
 HYALURONIDASE effect on rat sciatic nerve, 100
 HYPERTONICITY of skeletal muscle, effect of diazepam, 519
 HYPNOSIS for alleviation of pain in treatment of burns: case report, 39
 HYPOTENSION in quadriplegia, method of control, 598
 HYPOTHYROIDISM, myopathy, 230

I

IMPAIRMENT, medical, and assessment of disability, 13
 INDEX of Archives of Physical Medicine and Rehabilitation, Vol. 49, 1968
 . . . advertisers, 756
 . . . authors, 754
 . . . pagination, 753
 . . . subject, 746
 INDUCTION COIL, helical applicators for short-wave diathermy, heating patterns, 193
 INFARCTION, myocardial, rehabilitation, 443
 INSOLE to reduce shearing forces on the soles of the feet, 476
 INSTRUMENTAL DIFFERENCES in measurement of nerve conduction velocities, 276
 INTERCOSTAL motor nerve conduction, 515
 INTERNATIONAL CONGRESS of physical medicine, 735
 ISOMETRIC TRAINING for functional and organic muscle atrophy, 508

J

JOHNSON, E. W., 544
 JOINT HEATING by ultrasound, 28

K

KENNY, self-care evaluation scoring, 221
 KINEMATIC STUDY of normal upper extremity movements, 9

L

LEARNING RATES in self-care, 221
 LEFT-RIGHT DISCRIMINATION in hemiplegic patients, 533
 LEG BRACE for intermittent claudication, 578
 LIMB CIRCULATION, anatomic, physiologic and pharmacologic factors, 303

LINGUISTIC ANALYSIS in aphasia, 210
 LOCAL VASCULAR and venous oxygen responses to anaerobic and aerobic muscular work, 258
 LOW BACK PAIN, pathomechanics and a regimen of treatment, 396
 LOWER VERSUS UPPER EXTREMITY, work, effects on heart, 249
 LUMBAR, paravertebral spinal nerve block for hip flexor spasticity, 717
 LUNG DISEASE, chronic obstructive
 . . . bronchial role, 333
 . . . diaphragmatic role, 338
 . . . personality characteristics, 471

M

MAINTENANCE of denervated rabbit muscle with direct electrostimulation, 573
 MANAGEMENT AT HOME of patients severely disabled by spinal cord lesions, 592
 MANPOWER PROBLEMS in rehabilitation, 487
 MATTRESS, WATER, for decubitus ulcers, 290
 MEASUREMENT of the duration of effect of long-acting diazepam in spastic disorders, 36
 MEDICAL CENTER and community resources in continuing care, 285
 MEDICAL IMPAIRMENT and assessment of disability, 13
 MEDICINE AND EXERCISE, review, 66
 METHOD OF CYSTOMETRY to record bladder activity in neurogenic dysfunction, 21
 METHOD OF KINEMATIC study of normal upper extremity movements, 9
 METHOD FOR MULTIVARIANT ANALYSIS of aphasia based on studies of 235 patients in a rehabilitation setting, 210
 MINODE AND MONODE heating patterns, 193
 MODIFICATIONS OF WHEELCHAIR footrest and armrest to improve function and convenience, 480
 MOTIVATION of patients, 281
 MOTONEURON EXCITABILITY, afferent influence in normal and spastic subjects, 708
 MOTOR CONDUCTION in the deep palmar branch of the ulnar nerve, 460
 MOTOR PERFORMANCE, muscle synergies, 655
 MOTOR-POINT BIOPSIES in carcinomatous neuropathy, 643
 MOTOR SYSTEM, GAMMA, in achilles tendon reflex of hemiplegic, 698
 MOTOR-UNIT POTENTIALS, computer analysis of duration, 524
 MULTIVARIANT ANALYSIS of aphasia, 210
 MUSCLE SYNERGIES in motor performance, 655
 MUSCLE
 . . . anaerobic and aerobic work, 258
 . . . atrophy and isometric training, 508
 . . . dystrophy, enzymes and exercise, 554
 . . . hypertonicity and diazepam, 519
 . . . reflex and rheologic properties in spasticity, 723
 . . . stimulation in denervation, 566, 573
 . . . telemetry of gait activity, 349
 . . . work, effect on heart, 249
 MYOCARDIAL INFARCTION, effects of physical training, 131
 . . . rehabilitation for inpatients, 443
 MYOELECTRIC CONTROL, clinical applications, 661
 . . . engineering principles, 294
 MYXEDEMA MYOPATHY, clinical, electrodiagnostic, and pathologic findings in advanced case, 230

N

NERVE, separate and combined effects of phenol, hyaluronidase and DMSO, 100
 NERVE BLOCKS (see Block)

NERVE CONDUCTION STUDIES

- ... in carpal tunnel syndrome, 371
- ... in carpal tunnel syndrome after surgery, 502
- ... electrode, spring-loaded, 665
- ... femoral nerve, 528
- ... instrumental differences, 276
- ... intercostal nerve, 515
- ... in rheumatoid arthritis, 90
- ... serial determinations in rat, 205
- ... ulnar nerve, palmar branch, 460
- ... variability in normal, 650

NEURITIS, ALLERGIC, experimental model of idiopathic polyneuritis, 490**NEUROGENIC BLADDER** (see Bladder)**NEUROLOGICALLY HANDICAPPED CHILDREN**, Doman-Delacato treatment, official statement, 183**NEUROPATHY, CARCINOMATOUS**, motor-point biopsies, 643**NON-ARTICULAR RHEUMATIC** pain syndromes, 367**NUMERICAL SCORING** of self-care status: a study of the Kenny self-care evaluation, 221**O****OBITUARIES**,

- Bender, J. A., 180
- Glattly, H. W., 114
- Greene, L. B., 483
- Hvid, N. E., 298
- Jenkins, J. G., 180
- Kime, E. N., 674
- Lawrence, G. P., 483
- Lubarsky, D. A., 298
- Schuyler, S. A., 180
- Shea, P. A., 180
- Solomon, L., 298
- Ulubar, O. N., 360
- Wise, C. S., 114

OBSTRUCTIVE LUNG DISEASE

- ... bronchial role, 333
- ... diaphragmatic role, 338
- ... personality characteristics, 471

ORTHOSTATIC HYPOTENSION in quadriplegia, temporary method of control, 598**ORTHOTICS** (see Prosthetics, Orthotics and Devices)

- ... clinical applications of myoelectric control, 661

OSCILLOMETRY after anterior poliomyelitis, 77

- ... in hemiplegia, 467

OXYGEN, VENOUS, after anaerobic and aerobic muscular work, 258**P****PAIN**

- ... of burns, hypnosis, 39
- ... cervical syndromes, 376
- ... cervical post traumatic, EMG, 170
- ... low back, 396
- ... non-articular rheumatic, 367

PALMAR BRANCH, deep, of ulnar nerve motor conduction in, 460**PALSY, CEREBRAL** (see Cerebral)**PARAMEDICAL PERSONNEL**, AMA resolution on utilization, 600**PARAPLEGIA** (see Spinal Cord Lesions)**PARKINSON'S DISEASE**, speech impairment, 269**PATTERNS OF HEATING** with helical induction coil short-wave diathermy applicators, 193**PERIPHERAL CIRCULATION** (see Circulation)**PERONEAL AND TIBIAL** nerve conductions with different instruments, 276**PERSONALITY CHARACTERISTICS** of patients with chronic obstructive pulmonary emphysema, 471**PHARMACOLOGIC**

- ... diazepam in Huntington's chorea, 591
- ... diazepam in muscle hypertonicity, 519
- ... diazepam and spastic hand, 677
- ... diazepam, long acting and spasticity, 36
- ... factors in limb circulation, 303
- ... hydrocortisone in rheumatic diseases, 187
- ... nitroglycerin, 77
- ... phenobarbital in Huntington's chorea, 586
- ... phenol, hyaluronidase and DMSO on rat sciatic, 100

PHONETIC DISINTEGRATION in aphasia, 1**PHYSICAL MEDICINE AND REHABILITATION**

- ... attitudes of medical students, 82
- ... bed service for, 613
- ... Fifth International Congress, 735
- ... planning the future, 426
- ... summer fellowship, 125
- ... undergraduate education, 123

PHYSICAL TRAINING effects on physiologic and behavioral characteristics of cardiac patients, 131**PHYSICIAN** in the training room, 340**PHYSIOLOGIC** factors governing limb circulation, 303

- ... effects of exercise, 66

PLANNING the future in physical medicine and rehabilitation, 426**PLATFORM CRUTCH**, convertible to forearm support for sitting, 238**PLETHYSMOGRAPHY** in hemiplegia, 467

- ... after poliomyelitis, 77

POLYNEURITIS (Guillain-Barré) experimental, 490**POTENTIALS**, evoked after phenol block, 455

- ... motor-unit, duration, 524

POLYPHASIS in cervical radiculopathy, 403**PROGRAM**, 30th Assembly, American Academy of PM&R, 173**PROSTHETICS, ORTHOTICS AND DEVICES**

- ... myoelectric control, 294
- ... plastic short leg brace, 108
- ... plastic transparent wheelchair seat, 541
- ... platform crutch, 238
- ... spinal support for hemipelvectomy, 42

PULMONARY DISEASE, assessment of disability, 13

- ... bronchial role, 333

- ... diaphragmatic role, 338

- ... personality characteristics, 471

Q**QUADRIPLEGIA** (see Spinal Cord Lesions)**QUANTITATIVE** assessment of gamma-motoneuron contribution to the Achilles tendon reflex in normal subjects, 145**QUANTITATIVE** evaluation of the effect of diazepam in Huntington's chorea, 586**R****RADICULOPATHY**, cervical, 403, 407

- ... intercostal, 515

RATES OF LEARNING of self care, 221**RECOVERY OF SELF-CARE** in hemiplegia, behavioral correlates, 449**RECRUITMENT** in denervated rabbit muscle, effect of variations of stimulus, 566**REFLEX AND RHEOLOGIC** properties of the spastic gastrocnemius-soleus muscle group, 723**REFLEX** abdominal in cerebral palsy, 163

- ... gamma motoneuron contribution to normal Achilles tendon reflex, 145

- ... ditto in hemiplegia, 698

- ... stretch reflex alterations in spasticity, 199

REHABILITATION

- ... bed service need, 613
- ... categorization of services, 423
- ... of hand in epidermolysis bullosa, 138
- ... home and clinic comparison, 615
- ... human community in, 59
- ... manpower problems, 487
- ... after myocardial infarction, 443
- ... and responsibility, 549
- ... and unmotivated patient, 281
- ... undergraduate education, 123

REHABILITATION PROGRAM for inpatients with recent myocardial infarction, 443

RELATIVE EFFECTS on the heart by muscular work in the upper and lower extremities, 249

RESIDENCY IN PM&R, need for bed service, 613

RESOLUTION OF AMA on utilization of paramedical personnel by physicians, 600

RESOURCES OF COMMUNITY and acute medical center, relationship in continuing care, 285

RESPONSIBILITY AND REHABILITATION, 549

RHEOLOGIC and reflex properties of spastic gastrocnemius-soleus muscle group, 723

RHEUMATIC diseases, thermography, 187

- ... pain syndromes, non-articular, 367

RHEUMATOID ARTHRITIS electroneuromyographic observations, 90

RIGHT-LEFT DISCRIMINATION in hemiplegia, 533

ROLE of bronchial obstruction in chronic lung disease, 333

- ... of diaphragm in chronic obstructive lung disease, 338
- ... of gamma motor system in the achilles tendon reflex of hemiplegic patients, 698

S

SCAPULOCOSTAL SYNDROME, 383

SELF-CARE, Kenny evaluation, 221

- ... behavioral correlates of recovery, 449

SEPARATE and combined effects of phenol, hyaluronidase and dimethyl sulfoxide on the sciatic nerve of the rat, 100

SERIAL DETERMINATION of nerve conduction velocity in the rat, 205

SERVICE, BED for PM&R, 613

SERVICES, REHABILITATION, categorization, 423

SERUM ENZYMES, effect of exercise, 554

SHEARING FORCES on soles of feet, insole, 476

SHORT-LEG BRACING for intermittent claudication of the calf, 578

SHORT-WAVE DIATHERMY, continuous and pulsed, effect on peripheral circulation, 429

- ... heating patterns with minode and monode, 193

SHOULDER-HAND syndrome: present perspective, 338

SIGNIFICANCE of polyphasic potentials in the diagnosis of cervical root involvement, 403

SIMULATED DISABILITY, teaching demonstrations, 167

SITTING with platform crutch convertible to forearm support, 238

SLIDING BOARD, ball-bearing type, 353

SOCIAL SECURITY assessment of disability from medical impairment, 13

SPASTICITY (see also Nerve Block)

- ... alterations in stretch reflex, 199
- ... reflex and rheologic properties of calf muscles, 723
- ... viscoelastic characteristics of hand, 677

SPECIAL AWARD, G. D. Deaver, 110

SPEECH IMPAIRMENT in Parkinson's disease, 269

- ... delayed auditory feedback, 167
- ... EMG studies in aphasia, 1

SPENCER, W. A., 542

SPINAL CORD LESIONS

- ... abdominal emergencies, 343
- ... bladder dysfunction, 21, 692
- ... diazepam, long acting, 36
- ... electrodermal study, 728
- ... with hemipelvectomy, 42
- ... with hip flexor spasticity, lumbar nerve block, 717
- ... home care, 592
- ... motoneuron excitability, afferent influences, 708
- ... myoelectric control applications, 661
- ... orthostatic hypotension, temporary control, 598
- ... self-care evaluation, 221

SPRING-LOADED ELECTRODE for sensory nerve conduction, 665

STILLWELL, G. K., 354

STIMULATION of denervated rabbit muscle

- ... maintenance of muscle, 573
- ... stimulus variation effect on recruitment, 566

STRENGTH-DURATION and chronaxie studies in hemiplegia, 96

STUDENTS, MEDICAL, attitudes toward physical medicine, 82

- ... summer fellowships in PM&R, 125

SUPERFICIAL ABDOMINAL reflex in cerebral palsy, 163

SURGERY in adult hemiplegia, 437

- ... of hand in epidermolysis bullosa, 138
- ... in peripheral vascular disease, 326

SURVEY OF SELECTED LITERATURE, 48, 115, 241, 299, 361, 419, 546, 605, 675, 739

SYMPOSIUM on clinical management of disability, 367-402

SYNDROMES

- ... arterial in extremities, 315
- ... carpal tunnel, 371
- ... carpal tunnel, postoperative, 502
- ... cervical, 376, 407
- ... fibrosis, 155
- ... non-articular rheumatic, 367
- ... scapulocostal, 383
- ... shoulder-hand, 388

SYNERGIES, muscular, in motor performance, 655

T

TEACHING demonstrations of simulated disability, 167

TECHNIQUES FOR WRITING with paralyzed hand, 538

TELEMETRIC RECORDING of gait phase activity in muscle, 349

TEMPORARY method of controlling orthostatic hypotension in quadriplegia, 598

TENDON REFLEX (see Reflex)

TEST of the DeLorme Axiom, 245

THERAPEUTIC COMMUNITY and the rehabilitation process, 59

THERMOGRAPHY in rheumatic diseases, 187

TIBIAL AND PERONEAL nerve conduction studies with different instruments, 276

TREATMENT of decubitus ulcers by use of a water mattress, 290

- ... of flexor spasticity of hip by paravertebral lumbar spinal nerve block, 717

TRAINING, isometric, for functional and organic muscle atrophy, 508

- ... physical, effects on physiologic and behavioral characteristics of cardiac patients, 131
- ... room and physician, 340

TRANSPARENT plastic wheelchair for observation of pressure distribution, 541

TRICEPS SURAE WEAKNESS, brace for, 105

TUNNEL, CARPAL (see Syndrome)

U

ULCERS, DECUBITUS, use of water mattress, 290
 ULNAR NERVE motor conduction in deep palmar branch, 460
 ULTRASOUND, in heating joint structures, 28
 UNDERGRADUATE education (see Education)
 UNMOTIVATED PATIENT, 281
 UPPER EXTREMITY (see Extremities)
 UTILIZATION of paramedical personnel by physicians—AMA resolution, 600
 . . . of rehabilitation services, 423

V

VARIABILITY of nerve conduction velocity determinations in normal persons, 650
 VASCULAR DISEASE (see Circulation)
 VASCULAR AND VENOUS OXYGEN responses to anaerobic and aerobic muscular work, 258
 VISCOELASTIC characteristics of the hand in spasticity: a quantitative study, 677
 VISUAL DISTORTION in disability simulation, 167

W

WATER MATTRESS in treatment of decubitus ulcers, 290
 WHEELCHAIR modifications of footrest and armrest, 480
 . . . transparent plastic seat for observation of pressure distribution, 541
 WORK, anaerobic and aerobic, local vascular and venous oxygen responses, 258
 . . . by upper and lower extremities, relative effects on the heart, 249
 WRITING with paralyzed hand, techniques, 538

X

Y

Z

INDEX TO PAGES

VOLUME 49, January-December, 1968

January	1-58
February	59-122
March	123-182
April	183-244
May	245-302
June	303-366
July	367-422
August	423-486
September	487-548
October	549-612
November	613-676
December	677-756

AUTHOR INDEX

A

Abramson, A. S., 59
 Abramson, D. I., 258, 315
 Alston, W., 36
 Anderson, M., 145, 698
 Anderson, T. P., 125
 Aultine, L. A., 13
 Awad, E. A., 643

B

Baer, R. D., 163
 Bailey, G. A., 276
 Bergofsky, E. H., 338
 Bhala, R. P., 353, 460
 Birenbaum, A., 592
 Bishop, B., 145, 698
 Boen, J., 249
 Boland, G. L., 515
 Boone, D. R., 533
 Bourestom, N. C., 449
 Bruhn, J. G., 131
 Buso, E. 258

C

Cain, H. D., 455
 Caldwell, J. W., 515
 Caplan, H. I., 290
 Cardus, D., 692
 Carlson, K. E., 36
 Carter, C. H., 519
 Cenkovich, F., 615
 Cody, K. A., 655
 Colachis, S. C., Jr., 230
 Cole, T. M., 42, 125
 Corcoran, P. J., 108, 541
 Cowley, L. H., 276
 Crane, C. R., 403, 515
 Cress, R. H., 276
 Crewe, N., 125

D

Darling, R. C., 308, 426
 Daroff, R. B., 413
 Davis, L. J., 538
 De Cencio, D. V., 82, 471
 Delagi, E. F., 367
 DeLateur, B. J., 28, 193, 245
 Deller, J. J., Jr., 413
 DeVoretz, K. K., 238
 Dewis, L. S., 290
 Diamond, M. D., 281
 Dinken, H., 615
 Dinnerstein, A. J., 167
 Dinsdale, S. M., 42
 Downey, J. A., 308
 Duran, R., 502

E

Ehrlich, G. E., 187
 Eisenberg, J., 383

Engel, W. H., 238
 Engelsjerd, G. L., 21
 Engen, T. J., 9
 Ernstooff, D., 353
 Eson, M. E., 96
 Ewing, M. B., 480

F

Farrell, D. F., 586
 Finley, F. R., 294, 655
 Fleming, W. C., 276
 Fordyce, W. E., 245
 Fowler, W. M., Jr., 554
 Freed, M. M., 13
 Friedebold, G., 508
 Fuhrer, M. J., 728
 Fusfeld, R. D., 217

G

Gardner, G. W., 554
 Gersten, J. W., 615
 Getchell, L. H., 31
 Glass, A., 455
 Goetz, R. H., 326
 Goldberg, M. J., 467, 538, 665
 Goldkamp, O., 349
 Goodgold, J., 371, 460
 Govan, D. E., 21
 Granger, C. V., 105
 Gregg, R. A., 285
 Grynbau, B., 281, 437
 Guy, A. W., 193

H

Haberman, J. D., 187
 Halpern, D., 717
 Harris, K. S., 1
 Hartley, R. B., 39
 Henry, J. M., 413
 Herman, R., 199, 723
 Hershfield, S., 249
 Hofmann, W. W., 586
 Honet, J. C., 205, 578, 650
 Howard, M. T., 449
 Hyatt, R. E., 333

I

Ingberg, H. O., 343
 Iversen, I. A., 221

J

Jaeger, B. J., 285
 Jebson, R. H., 108, 205, 650
 Johnson, E. W., 155, 163, 502, 528
 Johnston, R., 145, 698

K

Karpovich, P. V., 66
 Katz, J., 100
 Kazerunian, H. H., 554
 Kenrick, M. M., 170
 Kester, N. C., 396
 Knott, L. W., 100
 Koehler, M. C., 677
 Kopell, H. P., 371
 Kottke, F. J., 249, 467
 Kozak, P., 77
 Kraft, G. H., 155, 490
 Krusen, E. M., 376, 403
 Krysztofiak, B., 677
 Kubicek, W. G., 249

L

LaBan, M. M., 155, 163
 Landes, B. A., 533
 Lane, J. F., 677
 Lategola, M. T., 131
 Lauvstad, W. A., 554
 Lee, S. W., 258
 Lehmann, J. F., 28, 193, 245
 Leshner, B. T., 82, 471
 Leshner, M., 82, 471
 Levenson, C., 187
 Levine, B., 665
 Licht, S., 549
 Liebgold, H., 455
 Lillquist, C., 249
 Long, C. II, 661, 677
 Lowenthal, M., 167
 Lusskin, R., 437

M

Machover, S., 145, 698
 McCluer, S., 598
 Mead, S., 455
 Meelhuysen, F. E., 717
 Melvin, J. L., 502
 Michele, A. A., 383
 Miglietta, O., 708
 Miller, B., 615
 Miller, J. M., 308
 Montgomery, M. M., 90

N

Naughton, J., 131
 Nelson, P. A., 735
 Nemunaitis, J., 437

O

Oester, Y. T., 90
 Olson, M. E., 249
 Oryshkevich, R. S., 90

AUTHOR INDEX

755

P

Pache, H. L., 290
Paul, B. J., 96
Panin, N., 96
Pavot, A. P., 170
Pearson, C. M., 230
Pendleton, L., 429
Perrin, E. B., 650
Peterson, C. R., 524
Peterson, M., 42
Policoff, L. D., 96
Poske, R. M., 90
Powers, J. J., 528
Prust, F. W., 343

Q

Quast, J., 717
Quesada, E. M., 692

R

Ramerman, W. G., 205
Rathjen, R., 524
Rees, T. D., 138
Reynolds, G. G., 170
Rogoff, J. B., 665
Rowlands, G. R., 285
Rubinstein, L. J., 100
Ruksha, A., 90
Ryan, A. J., 340

S

Salick, A. I., 230
Sarno, M. T., 210, 269
Schaumburg, H., 199
Schoening, H. A., 221
Schumacher, P., 105
Schwab, C., 258
Scott, F. B., 692
Shankweiler, D., 1
Shepherd, J. T., 303
Sherman, J. B., 423
Shields, M. N., 476
Siebens, A. A., 238
Silverman, D. R., 429
Simons, B. C., 108, 578
Simons, D. G., 524
Skowlund, H. V., 467
Smith, E. M., 566, 573
Spence, W. R., 476
Spencer, W. A., 9
Steinberg, F. U., 592
Steinberger, W. W., 566, 573
Steinbrocker, O., 388
Stoboy, H., 508
Stoddard, E. A., 592
Stolov, W. C., 578
Stonebridge, J. B., 28, 193
Stradal, L., 249
Strand, F. L., 508
Strandness, D. E., Jr., 578
Susac, J. O., 413
Swenson, J. R., 138
Swinyard, C. A., 138

T

Taylor, D. R., Jr., 294
Taylor, M. L., 1
Tobis, J. S., 123, 443, 613
Trombly, C. A., 661
Tuck, S., Jr., 258

U

Urusky, W., 353

V

W

Walsh, W., 698
Warren, C. G., 28, 193
Wasserman, R. R., 90
Waylonis, G. W., 407
Weiss, A. J., 281
Winer, J., 437
Wirta, R. W., 294, 655
Wood, P. K., 528
Wylie, C. M., 487

X

Y

Z

Zamir, I. Z., 677
Zohman, L. R., 443

INDEX TO ADVERTISERS

1968

The Birtcher Corporation
4371 Valley Boulevard
Los Angeles, California 90032.....Jan., Mar.,
May, July

The Burdick Corporation
Milton, Wisconsin 53563...Jan., Feb., Mar., Apr.,
May, June, July, Aug.,
Sept., Oct., Nov., Dec.

Chattanooga Pharmacal Co., Inc.
2400 Dayton Boulevard
Chattanooga, TennesseeJan., Feb., Mar., Apr.,
May, July, Sept., Nov.

Everest & Jennings, Inc.
1803 Pontius Avenue
Los Angeles, California 90025....Jan., Mar., May
July, Sept., Nov.

Fli-Back Sales Corporation
P. O. Box 427
Highpoint, North Carolina 27261 ..Feb., Apr., June,
Aug., Oct., Dec.

Geigy Pharmaceuticals
Division of Geigy Chemical Corporation
Ardsley, New York 10502...Jan., Mar., May, July

J. E. Hanger, Inc.
40 Patterson Street, N.E.
Washington, D.C. 20002.....Jan., Apr., May
July, Sept., Nov.

Herbst Shoe Manufacturing Company
Child Life Shoes
P. O. Box 2005
Milwaukee, Wisconsin 53201.....Apr., June, Aug.,
Oct., Dec.

Hewlett-Packard Company
Waltham Division
175 Wyman Street
Waltham, Massachusetts 02154..Mar., May, July,
Sept., Oct., Nov., Dec.

Ille Electric Corporation
Reach Road
Williamsport, Pennsylvania 17701....Jan., Mar.,
May, July,
Sept., Nov.

Jobst Institute, Inc.
P. O. Box 653
Toledo, Ohio 43601Dec.

Johnson & Johnson
Hospital and Professional Division
New Brunswick, New Jersey.....Feb., Apr., June

LaBerne Manufacturing Company, Inc.
P. O. Box 5245
Columbia, South Carolina 29205..Jan., Feb., Mar.,
Apr., May, June,
July, Aug., Sept.,
Oct., Nov., Dec.

The London Company
Box 2484
London, Ontario, Canada...Jan., Feb., Mar., Apr.,
May, June, July, Aug.,
Sept., Oct., Nov.

Lumex, Inc.
1325 Newbridge Road
Bellmore, New YorkJan., Mar., Sept.

Medco Products Company, Inc.
3601 East Admiral Place
P. O. Box 3338
Tulsa, Oklahoma 74115.....Feb., Mar., Apr., May,
June, July, Aug., Sept.,
Oct., Nov., Dec.

Medical Instrument Company
1128 North Las Palmas Avenue
Los Angeles, California 90038....June, Aug., Oct.

J. A. Preston Corporation
71 Fifth Avenue
New York, New York 10003....Jan., Feb., Mar.,
Apr., May, June,
July, Aug., Sept.,
Oct., Nov., Dec.

Ritter Equipment Company
A Division of Ritter Pfaudler Corporation
Rochester, New York 14603.....Jan., Mar., May

Roche Bioelectronics Division
Hoffmann-La Roche, Inc.
Nutley, New Jersey 07110Feb.

Roche Laboratories
Division of Hoffmann-LaRoche, Inc.
Nutley, New Jersey 07110 ..Jan., Feb., Apr., May
July, Aug., Oct., Nov.

Stainless Specialties, Inc.
1604 Monrovia Avenue
Newport Beach, California 92660..Jan., Feb., Mar.,
Apr., May

Stryker Corporation
Kalamazoo, Michigan.....Jan., May, July, Aug.

Teca Corporation
220 Ferris Avenue
White Plains, New York 10603..Jan., Feb., Mar.,
Apr., May, June,
July, Aug., Sept.,
Oct., Nov., Dec.

Technicon Cybex
Ardsley, New York 10502.....June, July

Thermo-Electric Company
2372 West Seventh Street
Cleveland, Ohio 44113.....Apr., Aug., Oct.

Tru-Eze Manufacturing Company, Inc.
441 North Varney
Burbank, California 91503..Jan., Feb., Mar., Apr.,
May, June, July, Aug.,
Sept., Oct., Nov., Dec.

